

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD2085_01_s_2013_7				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD2085_01_s_2013_9				
Comment Code					
Inspector Comment					
Flood fighting supplies are available at the River Club.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD2085_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA has a flood fighting plan and training.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.12	Rating **	A/W	Issue No.	19
LM End	0.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.719052 °	37.723246 °
				-121.302928 °	-121.299492 °
DWR ID	DWR_RD2085_01_f_2015_19				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Disking on the levee shoulder. Make sure the water drains evenly to the slopes.					

Photo 1 of 1 : FA_2018_RD2085_113_19_20180911_00011.jpg



View of the disking on the levee crown shoulder.

LM Start	0.53	Rating **	A/W	Issue No.	52
LM End	0.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.723415 °	37.723415 °
				-121.298596 °	-121.298596 °
DWR ID	20677				
Comment Code					
Inspector Comment					
FS_ID:52493 DS_ID:20677 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pipe has been removed by LMA.Previous:Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged. FIELD_STRUCT_DESC: *REMOVED* 14-inch steel drainage pipe through the levee, 4.5 feet below the crown. Pump on pile structure in ditch on the landside (LS). Siphon breaker in corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Pipe removed by LMA. (Permit Application No. T2013179, 2014 - Surinder Sandhu, submitted to CVFPB. Permit was not needed per CVFPB review). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 0.47)]. FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_FA_2018_52493_62262.jpg



(Pipe removed by LMA)Pipe on WS with erosion into levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.53	Rating **	A/W	Issue No.	52 (cont)	
LM End	0.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.723415 °	37.723415 °	
				-121.298596 °	-121.298596 °	
DWR ID	20677					
Comment Code						
Inspector Comment						
FS_ID:52493 DS_ID:20677 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pipe has been removed by LMA.Previous:Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged. FIELD_STRUCT_DESC: *REMOVED* 14-inch steel drainage pipe through the levee, 4.5 feet below the crown. Pump on pile structure in ditch on the landside (LS). Siphon breaker in corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Pipe removed by LMA. (Permit Application No. T2013179, 2014 - Surinder Sandhu, submitted to CVFPB. Permit was not needed per CVFPB review). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 0.47)]. FS Date: 9/5/2013						

LM Start	0.53	Rating **	A/W	Issue No.	52 (cont)
LM End	0.53	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_52493_62261.jpg



Pipe removed from WS toe.

Photo 3 of 3 : UCIP_FA_2018_52493_62260.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder was removed by LMA.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.15	Rating **	M	Issue No.	1
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.715996 °	37.715996 °
				-121.291229 °	-121.291229 °
DWR ID	RD2085U01RM62.43				
Comment Code					
Inspector Comment					
11/02/2017: The erosion was reported to DWR by LMA. The site is located at the outside of a slight river bend. Both levee slope and river bank are covered with dense vegetation. [2017 Site ID:RD2085U01RM62.43]					

Photo 1 of 4 : FA_2018_RD2085_113_1_20180911_00001.jpg



Looking upstream at the erosion site. Note the dense vegetation and the trees at the upstream of the erosion.

LM Start	1.15	Rating **	M	Issue No.	1 (cont)
LM End	1.26	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2018_RD2085_113_1_20180911_00002.jpg



Looking downstream at the erosion site.

LM Start	1.15	Rating **	M	Issue No.	1 (cont)
LM End	1.26	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_RD2085_113_1_20180911_00003.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.15	Rating **	M	Issue No.	1 (cont)	
LM End	1.26	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.715996 °		37.715996 °
				-121.291229 °		-121.291229 °
DWR ID	RD2085U01RM62.43					
Comment Code						
Inspector Comment						
11/02/2017: The erosion was reported to DWR by LMA. The site is located at the outside of a slight river bend. Both levee slope and river bank are covered with dense vegetation. [2017 Site ID:RD2085U01RM62.43]						

Photo 4 of 4 : FA_2018_RD2085_113_1_20180911_00004.jpg



Close view of the erosion.

LM Start	1.63	Rating **	C	Issue No.	43
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.712676 °	37.712676 °
				-121.284732 °	-121.284732 °
DWR ID	DWR_RD2085_01_s_2017_43				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.79	Rating **	C	Issue No.	39
LM End	1.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.711456 °	37.711456 °
				-121.282397 °	-121.282397 °
DWR ID	DWR_RD2085_01_f_2018_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.	31
LM End	1.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.709441 °	37.709441 °
				-121.279973 °	-121.279973 °
DWR ID	DWR_RD2085_01_f_2018_31				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Some older rodent holes on the waterside slope. Recommend monitoring.					

No Photos

LM Start	2.21	Rating **	M	Issue No.	35
LM End	2.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.707877 °	37.707877 °
				-121.276563 °	-121.276563 °
DWR ID	DWR_RD2085_01_f_2018_35				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.56	Rating **	A/W	Issue No.	2
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.703094 °	37.703094 °
				-121.274894 °	-121.274894 °
DWR ID	RD2085U01RM66.5				
Comment Code					
Inspector Comment					
11/1/2018: This site was repaired within the past week.					
10/04/2017: The erosion has progressed significantly toward the levee toe.					
07/08/2016: No significant change observed.					
09/10/2015: No significant change observed. Signs of animal activity are present.					
09/10/2014: No significant change observed.					
09/20/2013: No significant change in erosion observed. More vegetation at the site.					
12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.					
09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.					
08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2017 Site ID:RD2085U01RM66.5]					

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : FA_2018_RD2085_113_2_20180911_00005.jpg



Close view of the erosion. Note the dense vegetation at the site.

Photo 2 of 4 : FA_2018_RD2085_113_2_20180911_00006.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.703094 °	37.703094 °
				-121.274894 °	-121.274894 °
DWR ID	RD2085U01RM66.5				

Comment Code

Inspector Comment

11/1/2018: This site was repaired within the past week.
 10/04/2017: The erosion has progressed significantly toward the levee toe.
 07/08/2016: No significant change observed.
 09/10/2015: No significant change observed. Signs of animal activity are present.
 09/10/2014: No significant change observed.
 09/20/2013: No significant change in erosion observed. More vegetation at the site.
 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.
 09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.
 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2017 Site ID:RD2085U01RM66.5]

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_RD2085_113_2_20180911_00007.jpg



Direct view of the erosion. Note the sign of erosion expansion.

Photo 4 of 4 : FA_2018_RD2085_113_2_20180911_00008.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.57	Rating **	A/W	Issue No.	48	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.703094 °		°
				-121.274894 °		°
DWR ID	DWR_RD2085_01_f _ 2017_48					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:105						
Site Designation:FSRP-13-55						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/8/2017						
Notes: This site is repaired as of this inspection date. Fall 2018.						

LM Start	2.57	Rating **	A/W	Issue No.	48 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_FA_2018_105_262.jpg



Photo 2 of 3 : LEVAL_FA_2018_105_271.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.57	Rating **	A/W	Issue No.	48 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.703094 °	°	
				-121.274894 °	°	
DWR ID	DWR_RD2085_01_f_2017_48					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:105						
Site Designation:FSRP-13-55						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/8/2017						
Notes: This site is repaired as of this inspection date. Fall 2018.						

Photo 3 of 3 : LEVAL_FA_2018_105_272.jpg



LM Start	2.90	Rating **	A/W	Issue No.	21
LM End	2.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698700 °	37.698700 °
				-121.277199 °	-121.277199 °
DWR ID	DWR_RD2085_01_f_2015_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This area should be monitored for possible rodent activity.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.27	Rating **	C	Issue No.	42
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.694085°	37.694085°
				-121.277378°	-121.277378°
DWR ID	DWR_RD2085_01_s_2017_42				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.30	Rating **	M	Issue No.	57	
LM End	3.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.693618 °	37.693618 °	
				-121.277639 °	-121.277639 °	
DWR ID	20693					
Comment Code						
Inspector Comment						
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel storm drainage pipe through the levee, 4 feet below the crown. T-post marks location of pipe at the landside (LS) toe. Steel plate welded over pipe on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 11, 1968, (HLM 3.34), As-Built Drawings available, DWG 7-4-1685]. FS Date: 9/5/2013						

Photo 1 of 3 : UCIP_FA_2018_19433_32990.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

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Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.30	Rating **	M	Issue No.	57 (cont)	
LM End	3.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.693618 °		37.693618 °
				-121.277639 °		-121.277639 °
DWR ID	20693					
Comment Code						
Inspector Comment						
FS_ID:19433						
DS_ID:20693						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel storm drainage pipe through the levee, 4 feet below the crown. T-post marks location of pipe at the landside (LS) toe. Steel plate welded over pipe on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 11, 1968, (HLM 3.34), As-Built Drawings available, DWG 7-4-1685].						
FS Date: 9/5/2013						

Photo 2 of 3 : UCIP_FA_2018_19433_32989.jpg



Pipe visible on WS slope.

LM Start	3.30	Rating **	M	Issue No.	57 (cont)
LM End	3.30	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2018_19433_32988.jpg



Pipe visible on WS slope. Steel plate welded over end.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.34	Rating **	N	Issue No.	30
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.693019°	37.693019°
				-121.277892°	-121.277892°
DWR ID	DWR_RD2085_01_s_2014_30				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	3.55	Rating **	C	Issue No.	44
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690418°	37.690418°
				-121.276815°	-121.276815°
DWR ID	DWR_RD2085_01_s_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee slope.					

No Photos

LM Start	3.57	Rating **	C	Issue No.	45
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690161°	37.690161°
				-121.276543°	-121.276543°
DWR ID	DWR_RD2085_01_s_2016_45				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.65	Rating **	C	Issue No.	37
LM End	3.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.689090°	37.689090°	
			-121.276326°	-121.276326°	
DWR ID	DWR_RD2085_01_f_2016_37				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.68	Rating **	C	Issue No.	51
LM End	3.82	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.688570°	37.686620°	
			-121.276450°	-121.276790°	
DWR ID	DWR_RD2085_01_f_2017_51				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:106					
Site Designation:DWR_RD2085_01_R_2012_01					
Repair Type: Erosion					
Rating:Critical					
Field Date:6/8/2017					
Notes: Adjusted starting and ending points for this site. Site has been repaired.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.71	Rating **	C	Issue No.	25
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.688216 °	37.688216 °
				-121.276603 °	-121.276603 °
DWR ID	DWR_RD2085_01_f_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Control levee access to prevent damage to levee slopes by vehicle.					

No Photos

LM Start	3.74	Rating **	A/W	Issue No.	26
LM End	3.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687841 °	37.687841 °
				-121.276678 °	-121.276678 °
DWR ID	DWR_RD2085_01_f_2015_26				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Area should be maintained to prevent further levee damage.					

Photo 1 of 1 : FA_2018_RD2085_113_26_20180911_00014.jpg



View of the foot path on the levee slope.

LM Start	3.78	Rating **	C	Issue No.	46
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687253 °	37.687253 °
				-121.276780 °	-121.276780 °
DWR ID	DWR_RD2085_01_s_2016_46				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.80	Rating **	A/W	Issue No.	59
LM End	3.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °
				-121.276838 °	-121.276838 °
DWR ID	20683				
Comment Code					
Inspector Comment					
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12 feet below the crown. Slide gate in concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. Two concrete cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.71)]. FS Date: 9/5/2013 9:49:55 AM					

LM Start	3.80	Rating **	A/W	Issue No.	59 (cont)
LM End	3.80	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_19436_32997.jpg



Slide gate in Concrete riser on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_19436_32996.jpg



Concrete headwall off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.80	Rating **	A/W	Issue No.	59 (cont)
LM End	3.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °
				-121.276838 °	-121.276838 °
DWR ID	20683				
Comment Code					
Inspector Comment					
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12 feet below the crown. Slide gate in concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. Two concrete cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.71)]. FS Date: 9/5/2013 9:49:55 AM					

Photo 3 of 3 : UCIP_FA_2018_19436_32995.jpg



Concrete U-shaped headwall on WS slope.

LM Start	3.81	Rating **	M	Issue No.	38
LM End	3.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686774 °	37.686774 °
				-121.276810 °	-121.276810 °
DWR ID	DWR_RD2085_01_f_2018_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	3.86	Rating **	A/W	Issue No.	36
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686059 °	37.685340 °
				-121.276745 °	-121.276594 °
DWR ID	DWR_RD2085_01_f_2016_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Area should be monitored for possible rodent activity.					

Photo 1 of 1 : FA_2018_RD2085_113_36_20180911_00022.jpg



View of the rodent holes on the levee slope.

LM Start	4.15	Rating **	C	Issue No.	34
LM End	4.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682495 °	37.682495 °
				-121.274169 °	-121.274169 °
DWR ID	DWR_RD2085_01_f_2016_34				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes were repaired and the area should be monitored for possible rodent activity.					

No Photos

LM Start	4.46	Rating **	N	Issue No.	32
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.681605 °	37.681605 °
				-121.268882 °	-121.268882 °
DWR ID	DWR_RD2085_01_s_2012_32				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD2085_113_32_20180911_00018.jpg



11/03/2011 Large stump on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	49
LM End	5.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.677852°	37.677852°
				-121.268560°	-121.268560°
DWR ID	DWR_RD2085_01_f_2018_49				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large fallen tree on the watersdie slope.					

No Photos

LM Start	5.04	Rating **	A/W	Issue No.	3
LM End	5.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.677735°	37.677735°
				-121.269132°	-121.269132°
DWR ID	DWR_RD2085_01_f_2017_3				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Recommend removing volunteer tree.					

Photo 1 of 1 : FA_2018_RD2085_113_3_20180911_00009.jpg



View of the volunteer tree at the levee toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.22	Rating **	A/W	Issue No.	61	
LM End	5.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °	
				-121.269281 °	-121.269281 °	
DWR ID	20686					
Comment Code						
Inspector Comment						
FS_ID:23060						
DS_ID:20686						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch reinforced concrete drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Two corrugated metal cutoff walls. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 5.12)].						
FS Date: 9/5/2013						

LM Start	5.22	Rating **	A/W	Issue No.	61 (cont)
LM End	5.22	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_23060_39184.jpg



Cuts in pavement off LS toe good indicator of pipe location.

Photo 2 of 3 : UCIP_FA_2018_23060_39183.jpg



Concrete U-shaped headwall visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.22	Rating **	A/W	Issue No.	61 (cont)	
LM End	5.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °	
				-121.269281 °	-121.269281 °	
DWR ID	20686					
Comment Code						
Inspector Comment						
FS_ID:23060						
DS_ID:20686						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch reinforced concrete drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Two corrugated metal cutoff walls. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 5.12)].						
FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_FA_2018_23060_39182.jpg



Concrete U-shaped headwall and flapgate visible on WS toe.

LM Start	5.24	Rating **	N	Issue No.	29
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.675099°	37.675099°
				-121.269264°	-121.269264°
DWR ID	DWR_RD2085_01_f_2015_29				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD2085_113_29_20180911_00017.jpg



View of the tree stump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	5.24	Rating **	M	Issue No.	50
LM End	5.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.675060°	37.675060°	
			-121.269264°	-121.269264°	
DWR ID	DWR_RD2085_01_f_2018_50				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.02	Rating **	A	Issue No.	1
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705091°	37.705091°
				-121.274535°	-121.274535°
DWR ID	DWR_RD2085_02_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The LMA maintains this levee at a high level.					

Photo 1 of 1 : FA_2018_RD2085_114_1_20181105_00001.jpg



View of maintained waterside slope. Fall 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.682798°	37.683052°
				-121.262059°	-121.261851°
DWR ID	DWR_RD2085_03_s_2014_1				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

Photo 1 of 4 : FA_2018_RD2085_115_1_20181105_00004.jpg



Updated view of erosion on the waterside slope. Fall 2018.

LM Start	0.21	Rating **	U	Issue No.	1 (cont)
LM End	0.23	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2018_RD2085_115_1_20180911_00001.jpg



View of the erosion at the waterside levee toe. Spring 2017.

LM Start	0.21	Rating **	U	Issue No.	1 (cont)
LM End	0.23	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_RD2085_115_1_20180911_00002.jpg



View of the erosion at the waterside levee toe. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.21	Rating **	U	Issue No.	1 (cont)	
LM End	0.23	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			37.682798 °	37.683052 °	
				-121.262059 °	-121.261851 °	
DWR ID	DWR_RD2085_03_s_2014_1					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.						

Photo 4 of 4 : FA_2018_RD2085_115_1_20180911_00003.jpg



View of the erosion at the waterside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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